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Docket No.: HO-P02005US0  
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Dated: March 21, 2005

Signature: *Staci Harris*  
(Staci Harris)

Docket No.: HO-P02005US0  
(PATENT)

MAR 21 2005 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of:  
Christopher J. Schofield et al.

Application No.: 09/582,486

Confirmation No.: 3471

Filed: December 24, 1998

Art Unit: 1631

For: MODIFIED  
DEACETOXYCEPHALOSPORSIN C  
SYNTHASES (DAOCS) AND X-RAY  
STRUCTURE

Examiner: M. L. Borin

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each reference on the PTO/SB/08 is attached.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter

filed in this application by this firm) to our Deposit Account No. 06-2375, under Order No. 10020482.

Dated: March 21, 2005

Respectfully submitted,

By 

Gino Catena

Registration No.: 45,546

FULBRIGHT & JAWORSKI L.L.P.

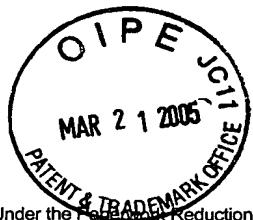
1301 McKinney, Suite 5100

Houston, Texas 77010-3095

(713) 651-5151

(713) 651-5246 (Fax)

Attorney for Applicant



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	09/582,486
				Filing Date	December 24, 1998
				First Named Inventor	Christopher J. Schofield
				Art Unit	1631
				Examiner Name	M. L. Borin
Sheet	1	of	1	Attorney Docket Number	HO-P02005US0

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	CA	Kovacevic, Steven et al.; Cloning, Characterization, and Expression in Escherichia coli of the Streptomyces clavuligerus Gene Encoding Deacetoxycephalosporin C Synthetase; <i>Journal of Bacteriology</i> , Feb. 1989, p. 754-760.			
	CB	Chin, Hong Soon et al.; A Complete Library of Amino Acid Alterations at N304 in Streptomyces clavuligerus Deacetoxycephalosporin C Synthase Elucidates the Basis for Enhanced Penicillin Analogue Conversion; <i>Applied and Environmental Microbiology</i> , Jan. 2004, p. 607-609.			
	CC	Chin, Hong Soon et al.; Mutation of N304 to Leucine in Streptomyces clavuligerus Deacetoxycephalosporin C Synthase Creates an Enzyme with Increased Penicillin Analogue Conversion; <i>Biochemical and Biophysical Research Communications</i> ; 287, 507-513 (2001).			
	CD	Lee, Hwei-Jen et al. Active Site Mutations of Recombinant Deacetoxycephalosporin C Synthase; <i>Biochemical and Biophysical Research Communications</i> ; 292, 66-70 (2002).			

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